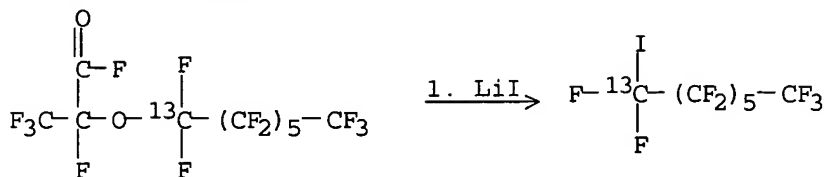


RX(24) OF 71 - 2 STEPS



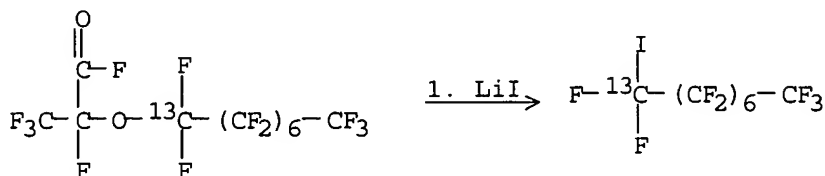
REF: U.S. Pat. Appl. Publ., 2005197510, 08 Sep 2005

NOTE: 2) no solvent, thermal, closed system used

CON: STEP(1.1) overnight, 164 - 168 deg C

STEP(2) 4 - 6 hours, 235 - 240 deg C

RX(29) OF 71 - 2 STEPS



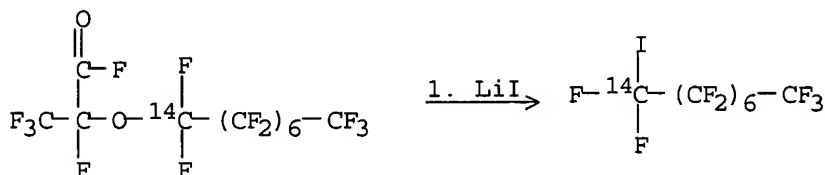
REF: U.S. Pat. Appl. Publ., 10 pp.; 2005

NOTE: 2) no solvent, thermal, closed system used

CON: STEP(1.1) overnight, 164 - 175 deg C

STEP(2) 2.5 hours, 220 - 250 deg C

RX(34) OF 71 - 2 STEPS



REF: U.S. Pat. Appl. Publ., 10 pp.; 2005

NOTE: 2) no solvent, thermal, closed system used

CON: STEP(1) 3 hours, 90 deg C

STEP(2) 16 hours, 215 deg C

AN 143:286066 CASREACT

TI Synthesis of ¹³C- and ¹⁴C-labeled perfluoroalkyl isotopomeric compounds

IN Shtarov, Alexander Borisovich; Howell, Jon Lee

PA USA

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005197510	A1	20050908	US 2004-794556	20040305
	WO 2005092820	A2	20051006	WO 2005-US6652	20050302
	WO 2005092820	A3	20051215		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRAI US 2004-794556 20040305

OS MARPAT 143:286066

AB Various ¹³C- and ¹⁴C-labeled compds. are prepared and a process for their
 preparation which selectively introduces ¹³C and ¹⁴C carbon labels into a
 fluoroalkyl chain is described.

=> d his

(FILE 'HOME' ENTERED AT 13:13:37 ON 15 SEP 2006)

FILE 'CASREACT' ENTERED AT 13:13:59 ON 15 SEP 2006

L1 STRUCTURE UPLOADED

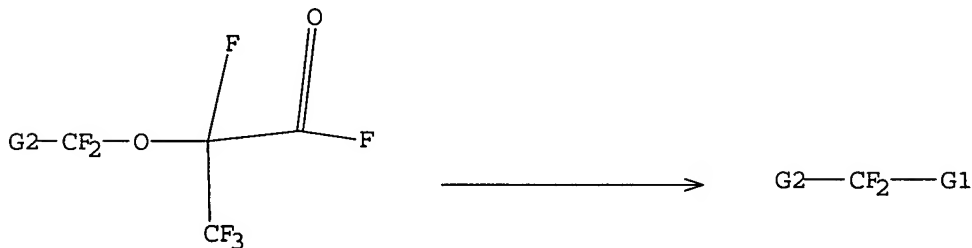
L2 0 S L1

L3 1 S L1 FUL

=> d l1

L1 HAS NO ANSWERS

L1 STR

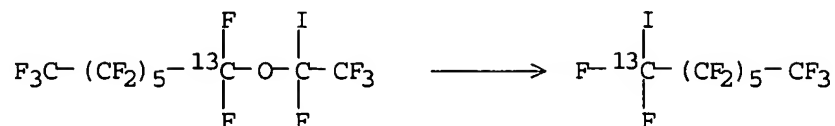


G1 Br,I

G2 C,O

Structure attributes must be viewed using STN Express query preparation.

RX(5) OF 71

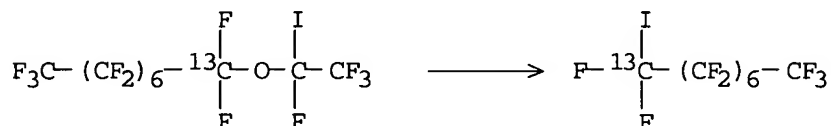


REF: U.S. Pat. Appl. Publ., 2005197510, 08 Sep 2005

NOTE: no solvent, thermal, closed system used

CON: 4 - 6 hours, 235 - 240 deg C

RX(11) OF 71



REF: U.S. Pat. Appl. Publ., 10 pp.; 2005

NOTE: no solvent, thermal, closed system used

CON: 2.5 hours, 220 - 250 deg C

AN 143:286066 CASREACT

TI Synthesis of ¹³C- and ¹⁴C-labeled perfluoroalkyl isotopomeric compounds

IN Shtarov, Alexander Borisovich; Howell, Jon Lee

PA USA

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005197510	A1	20050908	US 2004-794556	20040305
	WO 2005092820	A2	20051006	WO 2005-US6652	20050302
	WO 2005092820	A3	20051215		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2004-794556 20040305

OS MARPAT 143:286066

AB Various ¹³C- and ¹⁴C-labeled compds. are prepared and a process for their preparation which selectively introduces ¹³C and ¹⁴C carbon labels into a fluoroalkyl chain is described.

=> d his

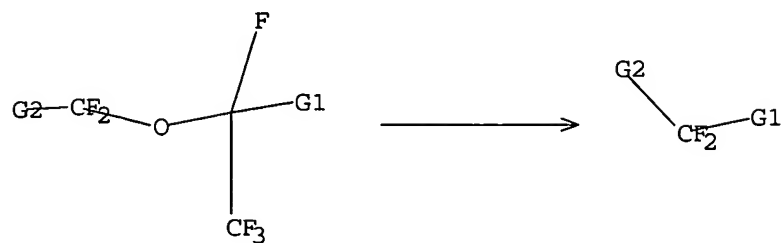
(FILE 'HOME' ENTERED AT 13:13:37 ON 15 SEP 2006)

FILE 'CASREACT' ENTERED AT 13:13:59 ON 15 SEP 2006

L1 STRUCTURE UPLOADED

L2 0 S L1
 L3 1 S L1 FUL
 L4 STRUCTURE UPLOADED
 L5 0 S L4
 L6 1 S L4 FUL

=> d 14
 L4 HAS NO ANSWERS
 L4 STR

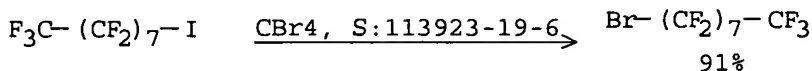


G1 Br,I

G2 C,O

Structure attributes must be viewed using STN Express query preparation.

RX(1) OF 1



REF: Ger. Offen., 4027766, 05 Mar 1992

AN 116:213990 CASREACT

TI Process for the preparation of fluorinated alkyl bromides by bromination of fluorinated alkyl iodides with an organic bromide

IN Winterfeldt, Andreas; Bartels, Guenter; Knieps, Reinhard

PA Riedel-de Haen A.-G., Germany

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4027766	A1	19920305	DE 1990-4027766	19900901
	WO 9204307	A1	19920319	WO 1991-EP1502	19910808
	W: CA, JP, US				
	RW: AT, BE, DE, DK, ES, FR, GB, GR, IT, NL				
	EP 549601	A1	19930707	EP 1991-914582	19910808
	EP 549601	B1	19950426		
	R: AT, BE, DE, DK, ES, FR, GB, IT, NL				
	JP 06500312	T2	19940113	JP 1991-513483	19910808
	JP 2819502	B2	19981030		
	AT 121717	E	19950515	AT 1991-914582	19910808
	ES 2073170	T3	19950801	ES 1991-914582	19910808
	CA 2089150	C	20020604	CA 1991-2089150	19910808
	US 5336818	A	19940809	US 1993-971820	19930216

PRAI DE 1990-4027766 19900901

WO 1991-EP1502 19910808

OS MARPAT 116:213990

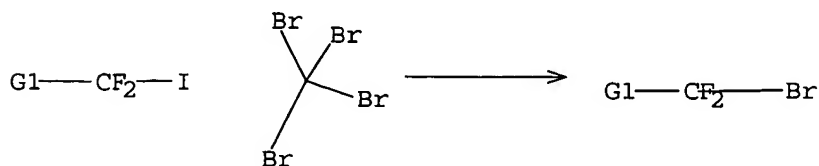
AB A process for the preparation of fluorinated alkyl bromides comprises the treatment of a fluorinated alkyl iodide with a bromide in which bromine is covalently bound to carbon or nitrogen. Suitable bromination agents are Br₄C, 3-bromo-4-fluorobenzoyl bromide, 2-bromoisobutyryl bromide, N-bromosuccinimide, etc. A mixture of perfluorooctyl iodide (640 g), Br₄C (776 g), and dibromofluorobenzene (520 g) was refluxed for 72 h to give (after separation and purification) >99% pure perfluorooctyl bromide (91% yield).

The yield of product is higher than with LiBr as bromination agent. This process does not require the use of solvents.

=> d 17

L7 HAS NO ANSWERS

L7 STR



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 13:13:37 ON 15 SEP 2006)

FILE 'CASREACT' ENTERED AT 13:13:59 ON 15 SEP 2006

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	1 S L1 FUL
L4	STRUCTURE UPLOADED
L5	0 S L4
L6	1 S L4 FUL
L7	STRUCTURE UPLOADED
L8	0 S L7
L9	1 S L7 FUL